MATE-T580: Quiz 4

Name:

Question 1

What is the output of the following lines of code:

```
txt <- "a cat and a caterpillar"
gsub("cat", "dog", txt)
```

A.

"a dog and a dogerpillar"

B.

"a dog and a caterpillar"

C.

TRUE

D.

FALSE

Question 2

What is the output of the following lines of code:

```
txt <- "a cat and a caterpillar"
gsub("\\bcat\\b", "dog", txt)
```

A.

"a dog and a dogerpillar"

B.

"a dog and a caterpillar"

C.

TRUE

D.

```
FALSE
```

Question 3

What is the output of the following lines of code:

```
txt <- "Institute of Electrical and Electronics Engineers"
gsub("[a-z ]", "", txt)
```

A.

```
"I E E E"
```

B.

```
"i e e e"
```

C.

```
IEEE
```

D.

```
ieee
```

Question 4

Which is the basic principle behind using `xpathSApply` to extract textual information from a webpage:

A.

The webpage is saved as a .txt file

B.

The webpage is downloaded with the `httr` package

C.

Text in a webpage is formatted using HTML tags

D.

`xpathSApply` is smart enough to get you the information you need

Question 5

Write a `gsub` function that uses a regular expression to convert `t1` to `t2`:

```
t1 <- "cats, dogs, oxes, and seals"
t2 <- "cat, dog, ox, and seal"
```

Hint: In regular expressions, the `?` mark denotes optional